

**THE FOLLOWING ARE THE ENGLISH TRANSLATION
OF ANNEXES TO THE INTERNATIONAL PRELIMINARY
EXAMINATION REPORT (ARTICLE 34):**

Amended Sheets (Pages 51-54)

AS ENCLOSED TO IPRP

We claim:

- 5 1. A catalytically active composition comprising an active component having the formula



- 10 wherein Y = Au or Rh,
 and wherein the indices a, c and d indicate the mass ratios of the respective elements and $0.1 \leq a \leq 3$, $0.1 \leq c \leq 3$ and $0 \leq d \leq 1$,
 on silicon carbide or steatite as carrier.

- 15 2. A catalytically active composition comprising an active component having the formula



- 20 wherein the indices a, b, c indicate the mass ratios of the respective elements
 and $0.1 \leq a \leq 3$, $0 \leq b \leq 3$ and $0.1 \leq c \leq 3$,
 on silicon carbide or steatite as carrier.

- 25 3. A catalytically active composition comprising an active component having the formula



- 30 wherein a and c indicate the mass ratios of the respective elements and $0.1 \leq a \leq 3$ and $0.1 \leq c \leq 3$,
 on silicon carbide or steatite as carrier.

4. A catalytically active composition comprising an active component having the formula



- 35 wherein Z = Ag or Pt,

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and wherein the indices a, b, c and e indicate the mass ratios of the respective elements and $0.1 \leq a \leq 3$, $0 \leq b \leq 3$, $0.1 \leq c \leq 3$ and $0 \leq e \leq 1$, on silicon carbide or steatite as carrier.

- 5 5. A catalytically active composition comprising an active component having the formula



10 wherein the indices a, c and e indicate the mass ratios of the respective elements and $0.1 \leq a \leq 3$, $0.1 \leq c \leq 3$ and $0 \leq e \leq 1$, on silicon carbide or steatite as carrier.

- 15 6. A catalytically active composition comprising an active component of the formula:

- 20
- $\text{Pd}_{0.5-1.0}\text{Rh}_{0.5-1.25}\text{Bi}_{1.25-1.75}\text{Ag}_{0.05-0.15}$
 - $\text{Pd}_{0.5-1.0}\text{Rh}_{1.0-1.5}\text{Bi}_{0.75-1.25}\text{Pt}_{0.01-0.1}$
 - $\text{Pd}_{0.25-0.5}\text{Rh}_{1.75-2.5}\text{Bi}_{0.25-0.5}\text{Co}_{0.01-0.1}$
 - $\text{Pd}_{0.5-1.25}\text{Rh}_{0.5-1.25}\text{Bi}_{0.75-1.5}\text{Cr}_{0.01-0.1}$
 - $\text{Pd}_{1.0-1.75}\text{Rh}_{0.25-0.75}\text{Bi}_{0.75-1.5}\text{Pt}_{0.0-0.15}\text{Co}_{0.01-0.1}$
 - $\text{Pd}_{1.0-1.75}\text{Rh}_{0.25-0.75}\text{Bi}_{0.75-1.5}\text{Pt}_{0.05-0.15}$
 - $\text{Pd}_{0.5-1.0}\text{Rh}_{1.0-1.75}\text{Bi}_{0.5-1.25}\text{Ag}_{0.03-0.15}\text{Ca}_{0.02-0.1}$
 - $\text{Pd}_{0.4-1.0}\text{Rh}_{1.0-1.75}\text{Bi}_{0.75-1.25}\text{Ag}_{0.03-0.15}$

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 - $\text{Pd}_{1.25-1.75}\text{Bi}_{1.25-1.75}\text{Co}_{0.005-0.02}$
 - $\text{Pd}_{0.4-1.0}\text{Rh}_{1.0-1.75}\text{Bi}_{0.75-1.25}$
 - $\text{Pd}_{0.15-2.25}\text{Rh}_{0-2.5}\text{Bi}_{0.15-2.75}$

30 on a carrier, wherein the indices indicate the mass ratios of the respective elements.

- 35 7. The use of a catalytically active composition comprising an active component of the formula $\text{Pd}_a\text{Bi}_c\text{Y}_d$ according to claim 1 on a carrier for the dehydrogenation of cyclic or acyclic carbonyl compounds to the corresponding α,β -unsaturated carbonyl compounds.

8. The use according to claim 7 wherein the cyclic or acyclic carbonyl compound is selected from the group consisting of cyclopentanone, butanone, butyraldehyde, cyclohexanone and isovaleraldehyde.
- 5 9. The use of a catalytically active composition comprising an active component of the formula $\text{Pd}_a\text{Rh}_b\text{Bi}_c$ according to claim 2 on a carrier for the dehydrogenation of cyclic or acyclic carbonyl compounds to the corresponding α,β -unsaturated carbonyl compounds.
- 10 10. The use according to claim 9, wherein the cyclic or acyclic carbonyl compound is selected from the group consisting of cyclopentanone, butanone, butyraldehyde, cyclohexanone and isovaleraldehyde.
- 15 11. The use of a catalytically active composition comprising an active component of the formula Pd_aBi_c according to claim 3 on a carrier for the dehydrogenation of cyclic or acyclic carbonyl compounds to the corresponding α,β -unsaturated carbonyl compounds.
- 20 12. The use according to claim 11, wherein the cyclic or acyclic carbonyl compounds are selected from the group consisting of cyclopentanone, butanone, butyraldehyde, cyclohexanone and isovaleraldehyde.
- 25 13. The use of a catalytically active composition comprising an active component of the formula $\text{Pd}_a\text{Rh}_b\text{Bi}_c\text{Z}_e$ according to claim 4 on a carrier for the dehydrogenation of cyclic or acyclic carbonyl compounds to the corresponding α,β -unsaturated carbonyl compounds.
- 30 14. The use according to claim 13, wherein the cyclic or acyclic carbonyl compounds are selected from the group consisting of cyclopentanone, butanone, butyraldehyde, cyclohexanone and isovaleraldehyde.
- 35 15. The use of a catalytically active composition comprising an active component of the formula $\text{Pd}_a\text{Bi}_c\text{Co}_e$ according to claim 5 on a carrier for the dehydrogenation of cyclic or acyclic carbonyl compounds to the corresponding α,β -unsaturated carbonyl compounds.

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16. The use according to claim 15, wherein the cyclic or acyclic carbonyl compounds are selected from the group consisting of cyclopentanone, butanone, butyraldehyde, cyclohexanone and isovaleraldehyde.
- 5 17. The use of a catalytically active composition comprising an active component of the formula:
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- $\text{Pd}_{0.5-1.0}\text{Rh}_{0.5-1.25}\text{Bi}_{1.25-1.75}\text{Ag}_{0.05-0.15}$
 - $\text{Pd}_{0.5-1.0}\text{Rh}_{1.0-1.5}\text{Bi}_{0.75-1.25}\text{Pt}_{0.01-0.1}$
 - $\text{Pd}_{0.25-0.5}\text{Rh}_{1.75-2.5}\text{Bi}_{0.25-0.5}\text{Co}_{0.01-0.1}$
 - $\text{Pd}_{0.5-1.25}\text{Rh}_{0.5-1.25}\text{Bi}_{0.75-1.5}\text{Cr}_{0.01-0.1}$
 - $\text{Pd}_{1.0-1.75}\text{Rh}_{0.25-0.75}\text{Bi}_{0.75-1.5}\text{Pt}_{0.0-0.15}\text{Co}_{0.01-0.1}$
 - $\text{Pd}_{1.0-1.75}\text{Rh}_{0.25-0.75}\text{Bi}_{0.75-1.5}\text{Pt}_{0.05-0.15}$
 - $\text{Pd}_{0.5-1.0}\text{Rh}_{1.0-1.75}\text{Bi}_{0.5-1.25}\text{Ag}_{0.03-0.15}\text{Ca}_{0.02-0.1}$

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 - $\text{Pd}_{0.4-1.0}\text{Rh}_{1.0-1.75}\text{Bi}_{0.75-1.25}\text{Ag}_{0.03-0.15}$
 - $\text{Pd}_{1.25-1.75}\text{Bi}_{1.25-1.75}\text{Co}_{0.005-0.02}$
 - $\text{Pd}_{0.4-1.0}\text{Rh}_{1.0-1.75}\text{Bi}_{0.75-1.25}$
 - $\text{Pd}_{0.15-2.25}\text{Rh}_{0-2.5}\text{Bi}_{0.15-2.75}$

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on a carrier for the dehydrogenation of cyclic or acyclic carbonyl compounds to the corresponding α,β -unsaturated carbonyl compounds.

18. The use according to claim 17, wherein the cyclic or acyclic carbonyl compounds are selected from the group consisting of cyclopentanone, butanone, butyraldehyde, cyclohexanone and isovaleraldehyde.

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